

USSN: 10/081,904
Amdt. dated 4 August 2004
Reply to OA of 4 June 2004

REMARKS

Claims 1-22 were originally filed and were subject to a Restriction Requirement. Applicants hereby elect with traverse, claims 1-8 corresponding to the product invention of Group I, for examination. In the event that the product claims are allowed, Applicants respectfully request rejoinder of method claims that depend from and include all the limitations of the allowable product claim in light of *In re Ochiai*, *In re Brouwer* and 35 USC 103 (b).

Applicants have amended claims 1-8 to clarify the invention. Support for the amendment of claim 1 is found in the Summary on page 2, six lines above the bottom of the page where the specification recites, "wherein pathways are annotated". Claims 2-8 were amended to properly reflect the antecedent "computerized storage and retrieval system" set forth in Claim 1 and on page 2, line 1, of the Summary. Support for the amendment of claim 8 is provided by the wording "optimization algorithm using dynamic programming" on page 5, line 10, (Summary, second paragraph, first sentence) of the specification..

Support for new claim 23 is found in the Summary, beginning with the last paragraph on page 5 of the specification and ending after the presentation of the second formula on page 6. Support for new claims 24-36 is provided in the chart below which maps the new claims (now dependent on the elected claims) to claims originally presented in the specification.

new claim 24	original claim 10	new claim 31	original claim 17
new claim 25	original claim 11	new claim 32	original claim 18
new claim 26	original claim 12	new claim 33	original claim 19
new claim 27	original claim 13	new claim 34	original claim 20
new claim 28	original claim 14	new claim 35	original claim 21
new claim 29	original claim 15	new claim 36	original claim 22
new claim 30	original claim 16		

Entry and consideration of the amended and new claims is respectfully requested. No new matter is added to the specification or claims by the amendment of claims 1-8 or submission of new claims 23-36.


CONCLUSION

Applicants have submitted a petition and fee for a one month extension of time and believe that no other fee is due with this communication.

Respectfully submitted,

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